

Winter School Overview

Dates: 23–28 December 2025

Project Title: Sustainable Urban and Architectural Development in the Context of Intercultural Dialogue

Sub-Project Title 1 (Urban morphology) : Morphological Evolution Survey and Conservation Strategy of Tashkent, a Typical Historical City in Central Asia

Sub-Project Title 2 (Heritage Conservation) : Heritage Value Assessment and Adaptive Conservation Strategies for Historic Buildings in Tashkent Oriented toward Sustainable Development

Sub-Project Title 3 (Low-Carbon Design) : Urban Acupuncture: Low-Tech Green Intervention Design and Construction Process Research Based on Indigenous Wisdom

Universities: TUACE & Chongqing University

Participants: 10 TUACE students + 10 Chongqing University students (The participants will be organized into 3 groups, with 6-8 members per group, mixing the three sub-project themes.)

Main Case Study for Urban Planning Group: Tashkent (Typical Neighborhoods, buildings and spaces)

Project Aim

Sub-Project 1 (Urban morphology) : This project focuses on Tashkent, a typical historical city in Central Asia. It aims to explore the characteristics of Tashkent's urban morphological evolution under the influence of diverse civilizations, utilizing urban morphology theories, multi-source data analysis, and field surveys. Based on this, the project will propose planning strategies oriented towards the holistic conservation of the historical city.

Sub-Project 2 (Heritage Conservation) : This project adopts Tashkent, a representative historic city in Central Asia, as its case study. Grounded in the theoretical framework of architectural heritage conservation articulated in the Venice Charter, it undertakes a systematic identification and hierarchical evaluation of the values of historic buildings. With a focus on adaptive reuse-oriented regeneration

pathways, the study seeks to develop conservation strategies and actionable models for historic buildings that contribute to sustainable urban development.

Sub-Project 3 (Low-Carbon Design) : This course aims to guide students toward a design practice that is precise, humble, and deeply rooted in local context. Using Tashkent as the practical site, the course employs field research to help students gain an in-depth understanding of the traditional ecological wisdom and low-tech construction logic specific to the city. They will engage in small-scale, low-cost, and implementable green space intervention design. Students will go through the entire process—from site diagnosis and translation of indigenous wisdom to material and construction innovation, and the exploration of design prototypes. Ultimately, the course enables them to complete a design concept that embodies ecological value, cultural significance, and community potential.

Project Tasks

Sub-Project 1 (Urban morphology) :

- (1) Study and apply urban morphology theories and methods to the survey and analysis of Tashkent's historical urban form.
- (2) Identify the stages of Tashkent's urban development history and morphological evolution based on historical archives, open-source map data, and relevant literature. Define the main construction and development boundaries and spatial structure characteristics of each stage.
- (3) Select and conduct morphological surveys on typical neighborhoods from the four historical periods (Traditional Islamic, Russian, Soviet, and Contemporary). Use a typological approach to analyze the neighborhoods' spatial form and social function characteristics. The analysis should focus on key elements such as street networks, land use patterns, building typology, open space, socio-spatial organization modes, landmark buildings and spatial nodes, and population characteristics and activities.
- (4) Based on the field survey and morphological analysis results, identify the main conservation challenges of the current historical urban form (including physical spatial character, spatial vitality, and historical conservation methods), and propose strategic proposals for the overall conservation of the historical city.

Sub-Project 2 (Heritage Conservation) :

- (1) Systematically integrate theories of historic building conservation, methods of architectural archaeology, and adaptive reuse techniques, and apply these approaches to the heritage conservation practice of historic architecture in Tashkent.

(2) Utilize historical archives, documentary sources, and in situ architectural–archaeological surveys to reconstruct the evolutionary trajectories of historic buildings and clarify period-specific characteristics of structural systems, artistic features, and social functions.

(3) Synthesize findings from archival studies and field investigations to comprehensively evaluate the aesthetic, structural–technological, economic, and socio-cultural values embodied in historic buildings.

(4) Respond to contemporary urban development demands by coordinating multiple adaptive reuse pathways and construct a strategic framework for the adaptive transformation of historic buildings that aligns with Tashkent’s sustainable development objectives.

Sub-Project 3 (Low-Carbon Design) :

(1) Employ typological methods to analyze representative public space types within Tashkent's urban fabric. Study low-carbon construction theory to assess the current conditions and deficiencies of these spaces in terms of materials, energy use, ventilation, and shading.

(2) Conduct in-depth research on traditional urban neighborhoods and communities, investigating the indigenous tectonic systems related to the identified space types. Analyze the low-carbon wisdom embedded in their materials, joints, and craftsmanship, and explore the potential for translating these principles into contemporary, low-tech, and low-cost construction prototypes.

(3) For a selected specific site, and based on the preceding typological and tectonic studies, design a concrete low-tech green intervention prototype. This should be demonstrated through technical drawings (plan, elevation, section, and detail) and diagrammatic analysis.

(4) Evaluate the potential for scaling and applying the design prototype to similar spatial typologies, completing the conceptual loop from an "individual design" to a "systematic strategy." Integrate all findings into a comprehensive set of drawings and presentation materials encompassing typological analysis, tectonic translation, design generation, and synthetic argumentation.

Presentation Format

Sub-Project 1 (Urban morphology) :

Final presentation in Group PPT format (20 minutes). The presentation must include the following contents:

(1) Stage division and main characteristics of Tashkent's morphological evolution, including primary construction, development boundaries, and spatial structure features.

(2) Typological analysis of the urban form of typical neighborhoods from each historical period. Specific elements include street patterns, building fabric, land use structure, open spaces, functional mix, and population characteristics and activities.

Presentation format should include analytical drawings, survey photographs, data charts, and textual explanations, all presented with unified layouts and legends.

(3) Identification of major problems in the conservation of the historical urban form and proposed conservation strategies.

Sub-Project 2 (Heritage Conservation) :

Final presentation in Group PPT format (20 minutes). The presentation must include the following contents:

(1) Developmental Stages and Principal Characteristics of the Selected Historic Building(s): This section should reconstruct the historical trajectory of the building(s) based on a critical literature review, present relevant findings from architectural–archaeological investigations, and analyze the evolution of spatial morphology.

(2) Contemporary Heritage Value Assessment: This section should evaluate the intrinsic architectural value, structural and technological value, and socio-cultural value of the building(s), together with an analysis of associated economic mechanisms. The analysis must be supported by plans, elevations, and sections, on-site survey photographs, comparative analytical diagrams, and concise written explanations. All drawings should conform to unified standards of graphic layout and legend convention.

(3) Development of Adaptive Conservation and Regeneration Strategies Oriented toward Sustainable Development Goals : This section should propose adaptive conservation and renewal strategies that respond to the objectives of sustainable urban development, ensuring a coherent linkage between heritage values and future urban transformation.

Sub-Project 3 (Low-Carbon Design) :

Final presentation in Group PPT format (20 minutes). The presentation must include the following contents:

(1) Analysis of the Selected Tashkent Public Space and Problem Identification, including information on the site's physical environment and social activities; Analysis of the referenced traditional wisdom, supported by photographs and diagrammatic analysis.

(2) Presentation of a Small-Scale, Micro Design Prototype Based on Traditional Wisdom, clarifying its generative logic and intended use. This must be supported by plan, elevation, section drawings, on-site research photographs, analytical comparison diagrams, and textual explanations. All drawings must adhere to a unified and standardized layout and legend.

(3) Argumentation and Summary on how the indigenous wisdom is translated into a modern context, culminating in the proposal of a systematic low-carbon modernization development strategy.

One-Day Trip: Samarkand (observational, focus on urban context and peripheral buildings)

DATE	TIME	ACTIVITY	VENUE
22.12.2025	(time confirmed)	Arrival of participants.	Tashkent, Uzbekistan TUACE
DAY 1			
OPENING CEREMONY			
<u>23.12.2025</u>	09:00 – 09:15	Welcoming the guests	TUACE
	09:15 - 09:30	Opening speeches Professor Azamat Khasanov , Dean, Faculty of Architecture, (TUACE)	TUACE
	09:30-09:40	Opening speech Professor Xie Hui , Dean, Chongqing University	
	09:40-09:45	Group photo	
	09:45 - 10:00	Introduction of two countries' universities (video: joint programs, summer/winter school, workshop activities) 5-7 minutes	
	10:00 – 10:15	Brief information about the Winter School Program	
	10:15-11:00	Lecture-1: Learning from the experts: Guest Lecture Professor Yichi Zhang, School of Architecture and Urban Planning at Chongqing University	
	11:00-11:45	Lecture-2: Dr. Elbek Midinov, Tashkent University of Architecture and Civil Engineering, Architecture Faculty	
	11:45-12:30	Workshop description Dividing into 3 groups and assign two professors to each group (TUACE + Chongqing), Each sub-project presentation- 10-15 minutes long. Please kindly suggest Chongqing professors to sub-groups:	

		Sub-group 1 Dr.Elbek Midinov, Sub group 2 Dr. Shakhboz Mustafoyev, Sub group 3 Dr. Ibrakhim,	
	12:30-14:00	Lunch and time for rest	
	14:00-18:00	Collective Survey of Urban Landmarks Site visit The Hazrati Imam Complex, Islamic Civilization Center, Kukeldash Madrasah, and Amir Temur Square).	
	18:00-19:30	Dinner and Rest	
	19:30-20:30	Group Assignments for Day Two	TUACE
<u>24.12.2025</u>	DAY 2		
	09:00 – 09:40	Lecture-3: Learning from the experts: Guest Lecture Prof. Liu Peng, Associate Professor, Department of Urban and Rural Planning at the School of Architecture and Urban Planning, Chongqing University	TUACE
	09:40 - 10:20	Lecture-4: Learning from experts: Dr. Shakhboz Mustafayev, Tashkent University of Architecture and Civil Engineering, Architecture Faculty	TUACE
	10:20-11:00	Lecture -5: Learning from the experts: Guest Lecture Dr. Sun Yuxuan- PhD, Assistant Researcher at Chongqing University.	TUACE
	11:00-11:40	Lecture-6: Learning from experts: Dr. Ibrakhim, Tashkent University of Architecture and Civil Engineering, Architecture Faculty	TUACE
	11:40–12:30		
	12:30-14:00	Lunch and short break	TUACE
	14:00-17:00	Survey and Analysis of the Old City Neighborhoods (Surrounding the Hazrati Imam Mosque ; Surrounding the Chorsu Bazaar) Including street pattern, building form, Land structure, open space, functional mix, population characteristics and major activities	
	17:00–19:00	Dinner and Rest	
	19:00–21:00	Project Guidance, Survey Data Compilation, Group Discussion, and Morphological Analysis (If the partner university's faculty are to participate, it is suggested to schedule their involvement collectively on Day 3 to allow for more flexible time on the first two days, or alternatively, to hold the discussion together in the evening.)	TUACE
<u>25.12.2025</u>	DAY 3		
	09:00–11:30	Survey and Analysis of the Russian Period Neighborhoods (Surrounding the Amir Temur	

		Square) Including street pattern, building form, Land structure, open space, functional mix, population characteristics and major activities	
	11:30–13:00	Lunch and short break	
	13:00–15:30	Survey and Analysis of the Contemporary Neighborhoods (Tashkent City Park) Including street pattern, building form, Land structure, open space, functional mix, population characteristics and major activities	
	15:30-18:00	Survey and Analysis of the Soviet Period Neighborhoods (Chilanzar Residential District) Including street pattern, building form, Land structure, open space, functional mix, population characteristics and major activities	
	18:00–19:30	Dinner and Rest	
	19:30–21:00	Project Guidance, Survey Data Compilation, Group Discussion, and Morphological Analysis	TUACE
26.12.2025	DAY 4		
	09:00-12:30	Project supervision , Group discussion , Mapping, problem analysis and strategy development , Supplementary investigation	TUACE
	12:30–14:00	Lunch and short break	TUACE
	14:00–17:30	Project supervision, Team preparation	TUACE
	17:30–19:00	Dinner and Rest	
	19:00–21:00	Project supervision, Team preparation	TUACE
27.12.2025	DAY 5		
	06:00–22:00	Trip to the city of Samarkand	Samarkand
		Observe urban fabric inside and outside historic urban areas Focus on ordinary residential & public buildings Compare environmental and construction conditions with Tashkent Output: Photo documentation Notes for final proposal refinement	
28.12.2025	DAY 6		
	CLOSING CEREMONY		
	09:00-12:00	Final Preparation before defense	TUACE
	12:00-13:00	Lunch time	

	13:00-15:00	Defense & Closing Final presentation (20 min) + Q&A Panel: TUACE & Chongqing University professors + industry guests	TUACE
	15:00-15:30	Clothing Speech of the Winter School Workshop presenters. Congratulation Speech (TUACE and Representatives of countries)	
	15:30-16:00	Certificates, photos, and closing ceremony	